

Supplement 4: Other Charts and Tables

This supplement contains charts and tables characterizing Argonne's activities in the following areas:

- Science and math education
- User facilities
- Subcontracting and procurement

A. Science and Math Education

Table S4.1 characterizes Argonne's existing educational programs. The total number of appointments and the number of minorities and women are shown for FY 2000 and FY 2001.

B. User Facilities

Table S4.2 describes experimenters at the Argonne user facilities that have been officially designated as such by DOE. In highly abbreviated terms, these facilities provide the following important scientific capabilities:

- *Advanced Photon Source*: Became operational in 1996, providing superintense X-ray beams meeting research needs in virtually all scientific disciplines and many critical technology areas; accommodates national research

centers in basic energy sciences, advanced synchrotron radiation instrumentation, and structural biology, as well as academic and industrial research teams.

- *Intense Pulsed Neutron Source*: Accelerates protons to obtain neutrons, which are particularly valuable for the study of materials through analysis of the motions and structures of atoms.

- *Argonne Tandem-Linac Accelerator System*: Accelerates ions of heavy elements for studies of their reactions, to advance basic understanding of the properties of atoms and atomic nuclei.

- *Electron Microscopy Center*: Provides transmission and scanning electron microscopy for high-spatial-resolution imaging, microanalysis, and *in situ* studies, including studies of *in situ* ion irradiation and implantation effects in metals, semiconductors, and ceramics.

C. Subcontracting and Procurement

Table S4.3 describes Argonne's subcontracts and procurements from universities. Table S4.4 describes procurements from small or disadvantaged businesses.

Table S4.1 Participation in Science and Math Educational Programs

Program	FY 2000			FY 2001			FY 2002
	Total	Under- represented Minorities ^a	Women	Total	Under- represented Minorities ^a	Women	Projected Total
Students							
Instructional Laboratory ^b	3,170	998	1,425	3,433	830	1,323	3,500
Instructional Vehicle	4,682	2,776	2,510	6,374	2,714	3,284	6,500
Student Conference	226	-	215	284	-	284	300
Teachers							
Argonne Community of Teachers	38	17	30	32	17	25	35
Chemistry Workshop	28	2	22	21	-	16	29
Educational Network Consortium	5,757	-	-	5,912	-	-	6,000
Undergraduate Programs							
Summer Energy Research Participation Program	228	29	85	224	32	78	225
Semester Energy Research Participation Program	61	14	24	46	8	15	50
Community College Initiative	21	11	8	23	9	10	20
Undergraduate Research Symposium	130	-	-	131	-	-	200
Graduate Programs							
Graduate Students — Thesis and Practicum	129	3	38	132	4	43	135
Postdoctoral Fellows	208	5	34	190	8	46	200
National School on Neutron and X-ray Scattering	61	7	22	60	4	21	60
User Programs	-	-	-	608	-	-	700
Faculty Programs							
Faculty Research Participation	25	2	6	31	5	5	30
Sabbatical Leave	8	0	1	6	0	1	6
Faculty Visits	55	3	7	61	3	10	60

^aUnderrepresented minorities include African-Americans, Hispanics, and Native Americans.

^bInstructional laboratory numbers include all educational levels and Argonne Information Center participants.

Table S4.2 Experimenters at Designated Argonne User Facilities — FY 2001

User Affiliation	Number of Individual Experimenters	Number of Organizations Represented	Percent of Use ^a
Advanced Photon Source			
Argonne	231	1	27
Other DOE Laboratories	95	9	5
Non-DOE U.S. Government	30	6	4
U.S. Universities	1,054	101	34
U.S. Industry	210	33	23
Foreign Government Laboratories	31	5	1
Foreign Universities	209	50	4
Foreign Industry	18	6	1
Other	111	25	1
Total	1,989	236	100
Intense Pulsed Neutron Source^b			
Argonne	65	8	27
Other DOE Laboratories	31	7	13
Non-DOE U.S. Government	0	0	0
U.S. Universities	98	61	41
U.S. Industry	15	9	6
Foreign Government Laboratories	0	0	0
Foreign Universities	31	21	13
Foreign Industry	0	0	0
Other	0	0	0
Total	240	106	100
Argonne Tandem-Linac Accelerator System			
Argonne	45	1	53
Other DOE Laboratories	4	3	0
Non-DOE U.S. Government	1	1	0
U.S. Universities	43	18	31
U.S. Industry	0	0	0
Foreign Government Laboratories	4	4	4
Foreign Universities	26	11	12
Foreign Industry	0	0	0
Other	0	0	0
Total	123	38	100
Electron Microscopy Center			
Argonne	54	1	71
Other DOE Laboratories	0	0	0
Non-DOE U.S. Government	0	0	0
U.S. Universities	19	7	17
U.S. Industry	0	0	0
Foreign Government Laboratories	8	5	5
Foreign Universities	7	7	7
Foreign Industry	0	0	0
Other	0	0	0
Total	88	20	100

^aPercentage of experimental activity or use. Time devoted to maintenance or upgrading of the facility is not included.

^bFor the Intense Pulsed Neutron Source, the percent of use was calculated from the numbers of individual users, not from experimental time.

Table S4.3 Total External Subcontracting and Procurement (\$ in millions)

Source	FY 2001	FY 2002	FY 2003	FY 2004
Universities	12.3	12.0	12.0	12.0
All Other	131.0	126.5	126.5	126.5
Transfers to Other DOE Facilities	19.2	18.5	19.5	19.5
Total External Subcontracts and Procurement	144.8	140.0	140.0	140.0

Table S4.4 Procurement from Small or Disadvantaged Businesses (\$ in millions)

Source	FY 2001	FY 2002	FY 2003	FY 2004
Procurements from Small or Disadvantaged Businesses	61.5	60.0	61.0	62.0
Percent of Annual Procurement	50.3	48.0	48.5	49.0